

**5.5.5 Typical Commercial Building Thermal Energy Distribution Design Load Intensities (Watts per SF)****Distribution System Fans**

Central System Supply Fans	0.3 - 1.0
Central System Return Fans	0.1 - 0.4
Terminal Box Fans	0.5
Fan-Coil Unit Fans (1)	0.1 - 0.3
Packaged or Split System Indoor Blower	0.6

**Other**

Cooling Tower Fan	0.1 - 0.3
Air-Cooled Chiller Condenser Fan	0.6
Exhaust Fans (2)	0.05 - 0.3
Condenser Fans	0.6

**Pumps**

Chilled Water Pump	0.1 - 0.3
Condenser Water Pump	0.1 - 0.2
Heating Water Pump	0.1 - 0.2

Note(s): 1) Unducted units are lower than those with some ductwork. 2) Strong dependence on building type.

Source(s): BTS/A.D. Little, Energy Consumption Characteristics of Commercial Building HVAC Systems, Volume II: Thermal Distribution, Auxiliary Equipment, and Ventilation, Oct. 1999, Table 3-1, p. 3-6.